

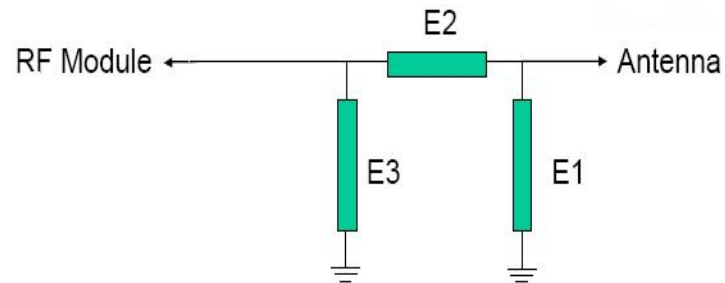
Antenna Test Report

Customer Name	MEFERI
Entry name	ME10
Debugging frequency band	WIFI 、 BT 、 NFC
Sub antenna	
VERSION	V3.0 (VC)
RF Engineering	Peng wei 18565640925

1.The Equipment of Active Test

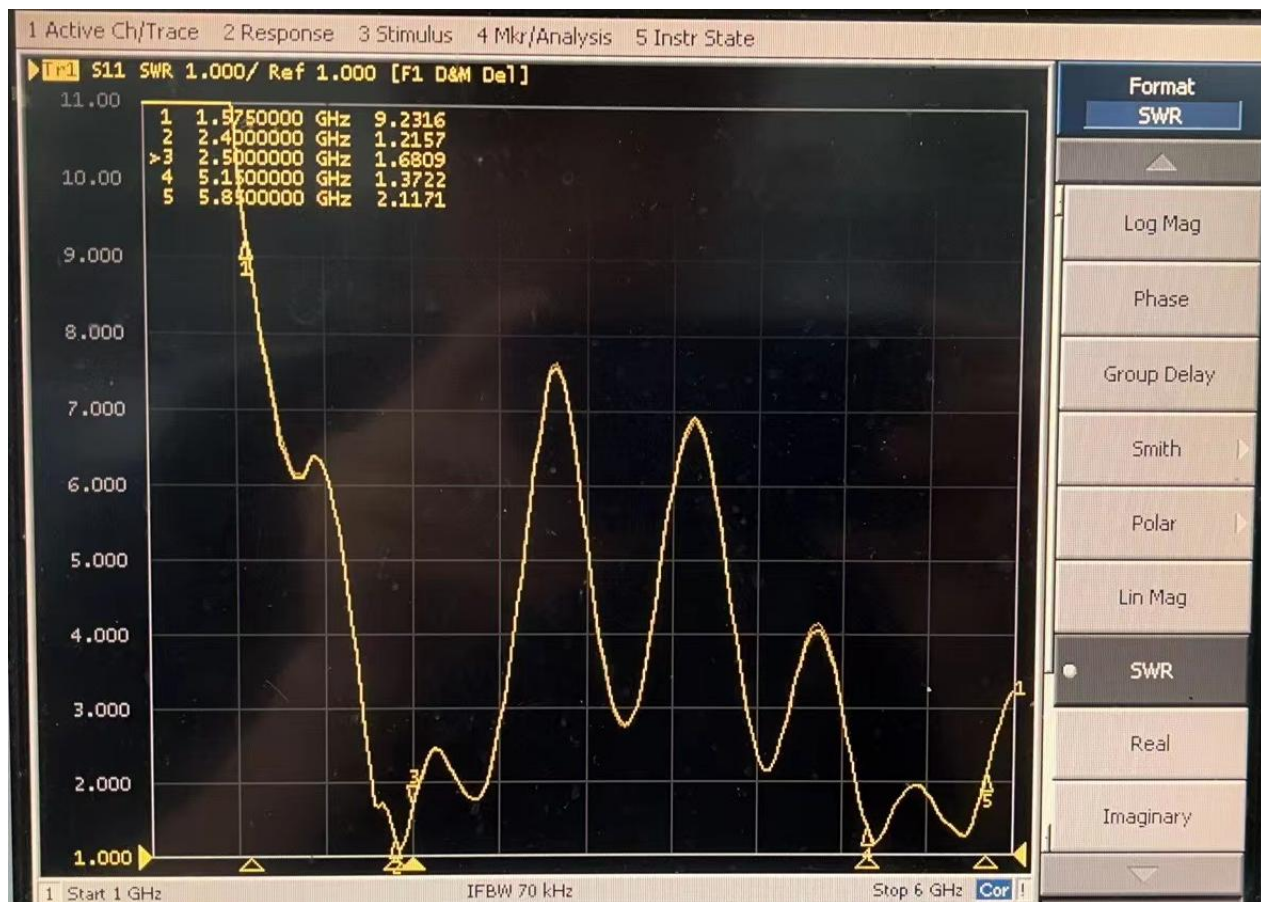
1. ETS Chamber 7×4×3(m)/3*3*3 (m) (3D Laboratory);
2. Vector network analyzer(Passive tester);
3. Network analyzer-5071E/B/Comprehensive measuring instrument-8960/LTE-RS-CMW500/MT8820C support 2G、3G、4G/BT、WIFI、NB ;

2.Matching Circuit Main (Matching no changed)

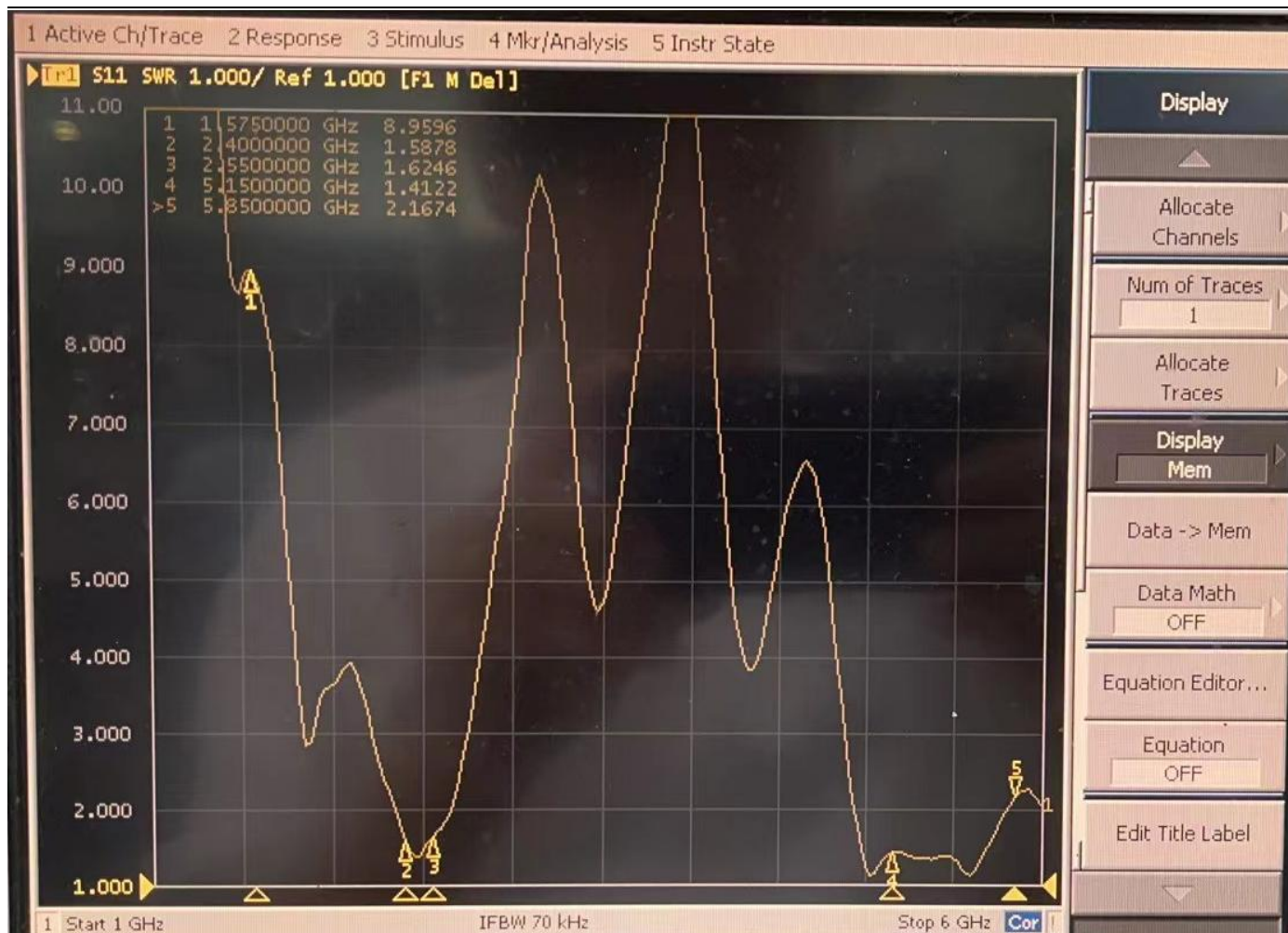


Element	Matching Value
E1	
E2	
E3	

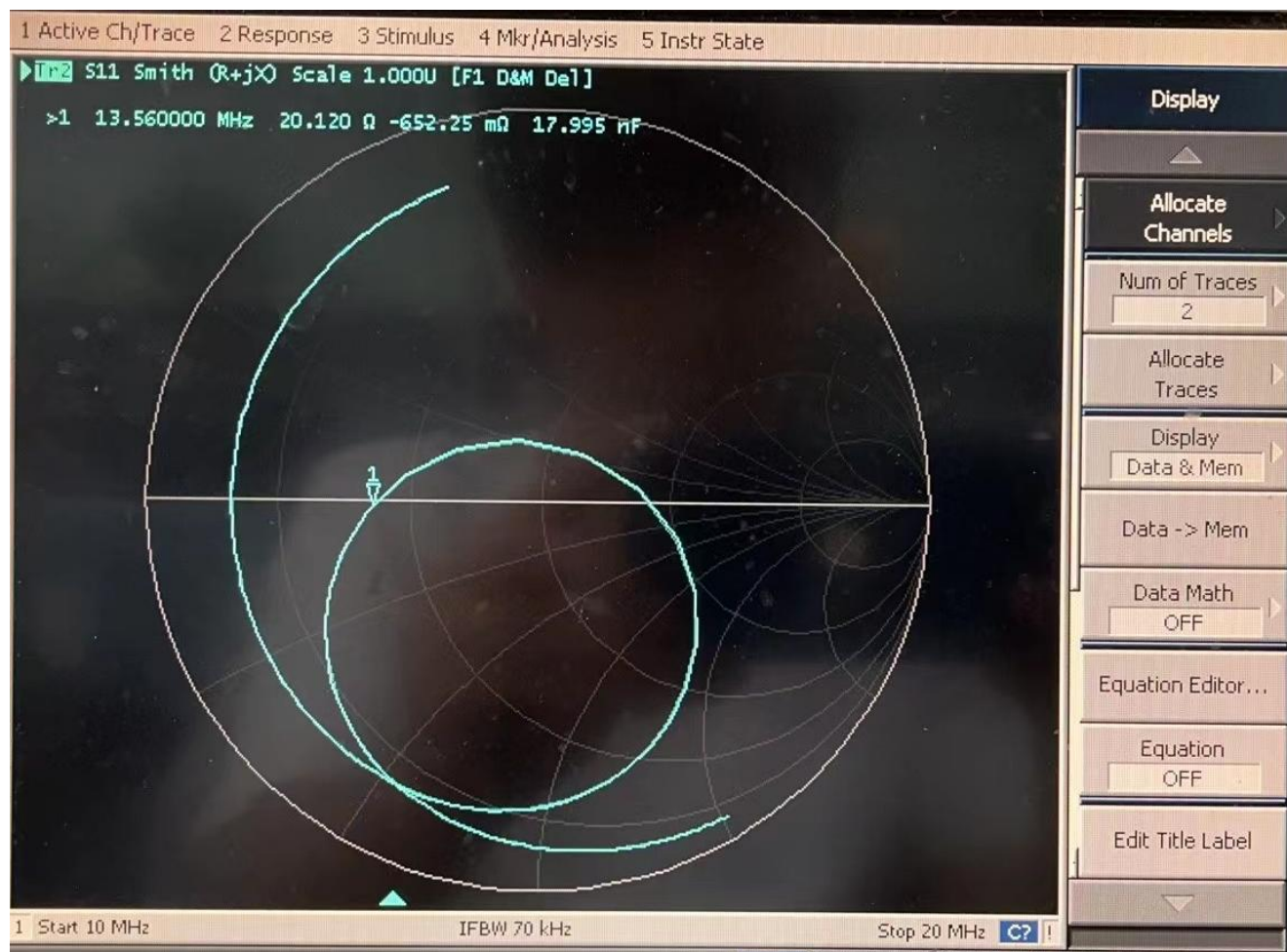
3: Antenna SWR Test



WIFI 0



WIFI 1



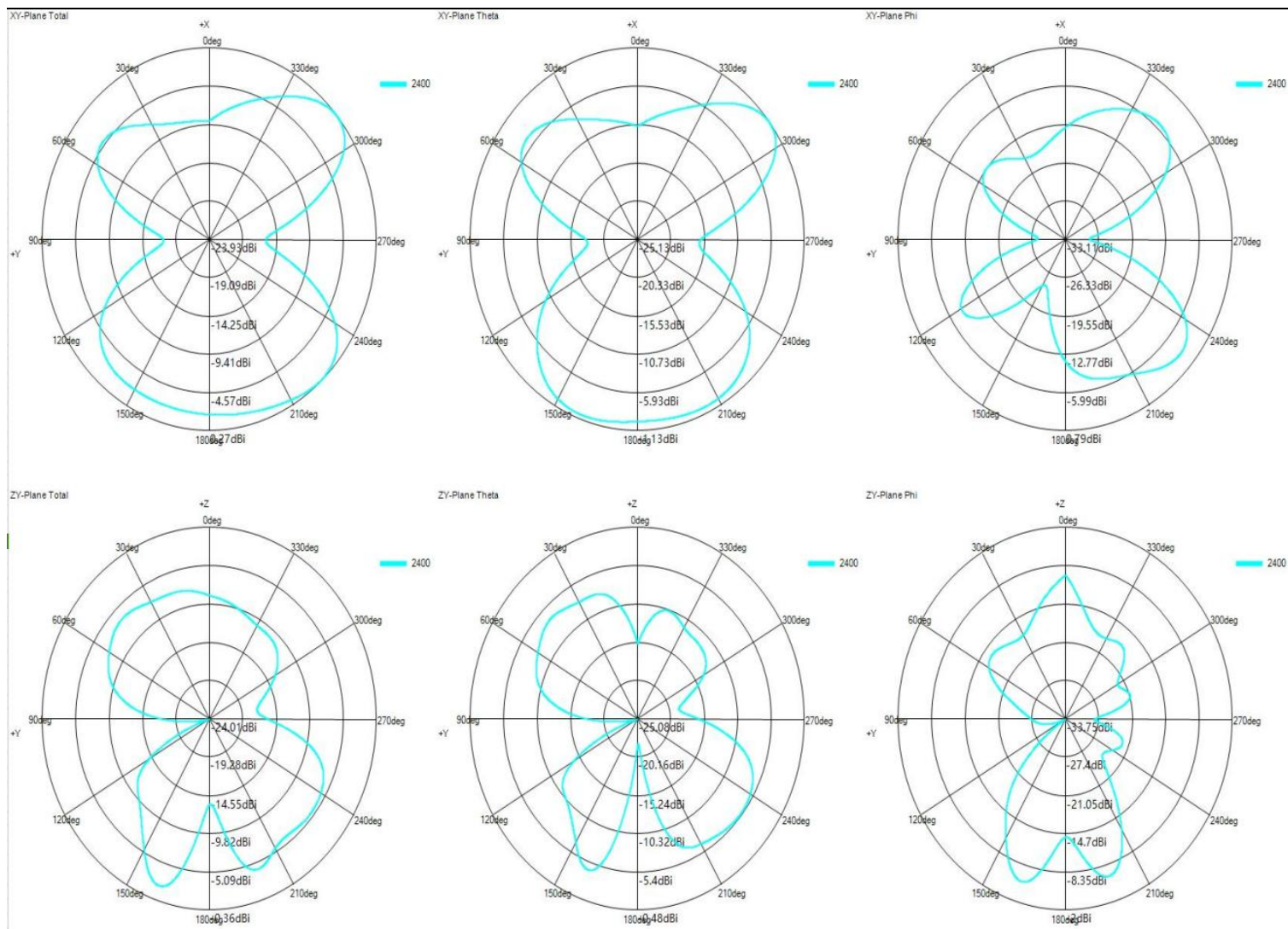
NFC

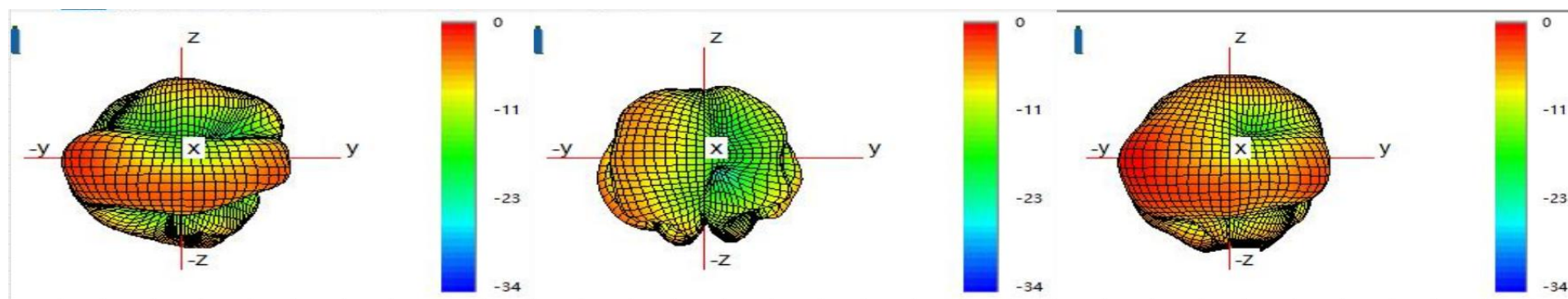
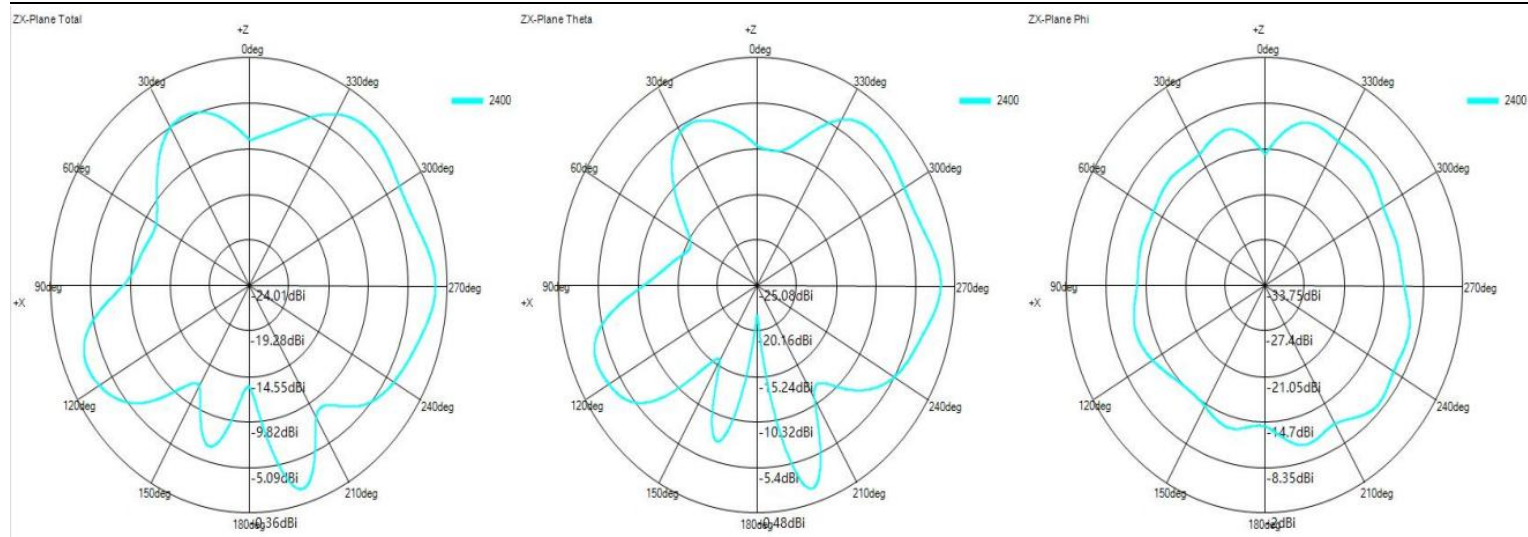
Shenzhen Dosking Technology Co., Ltd

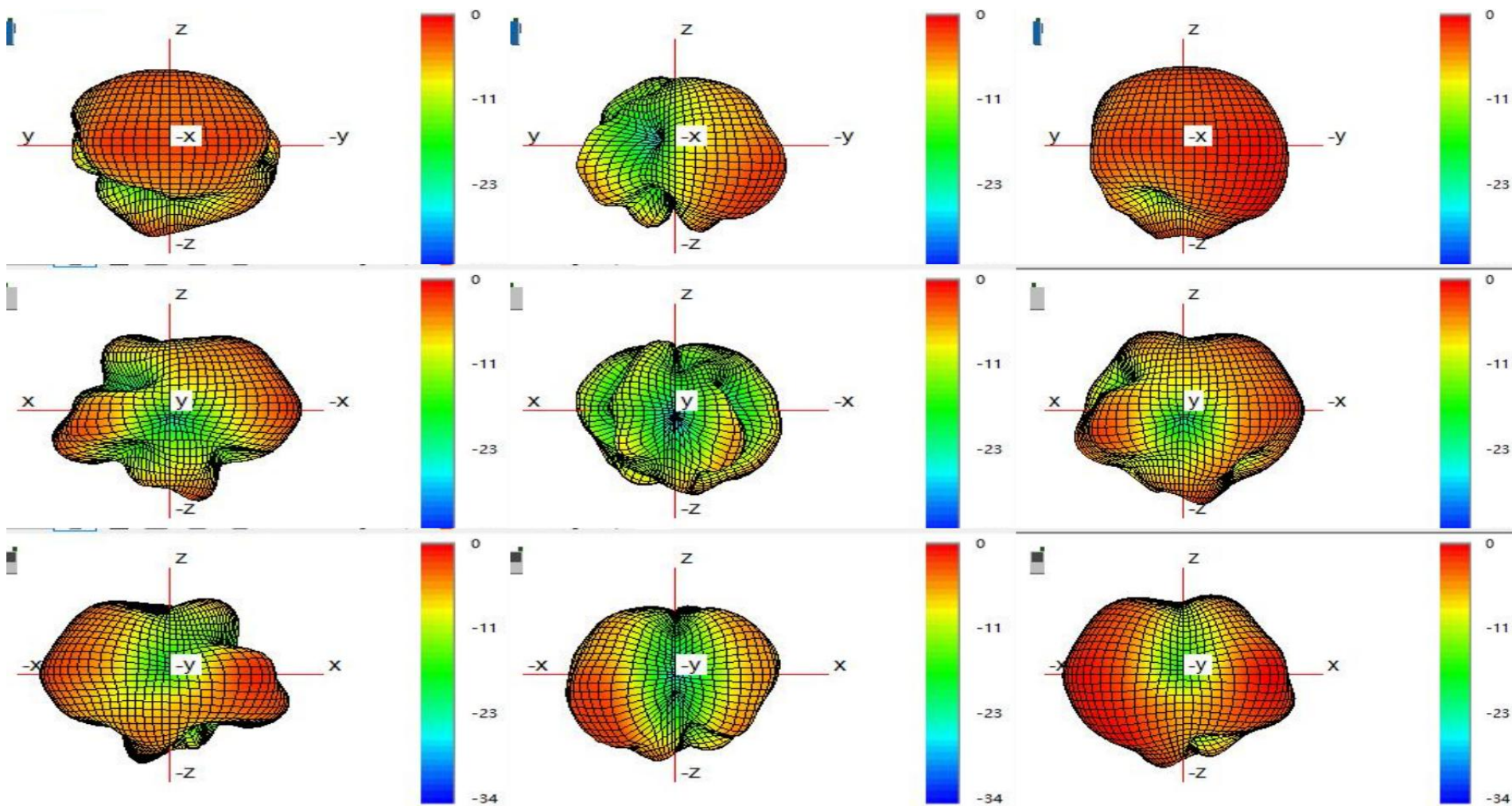
4: Passive efficiency parameters

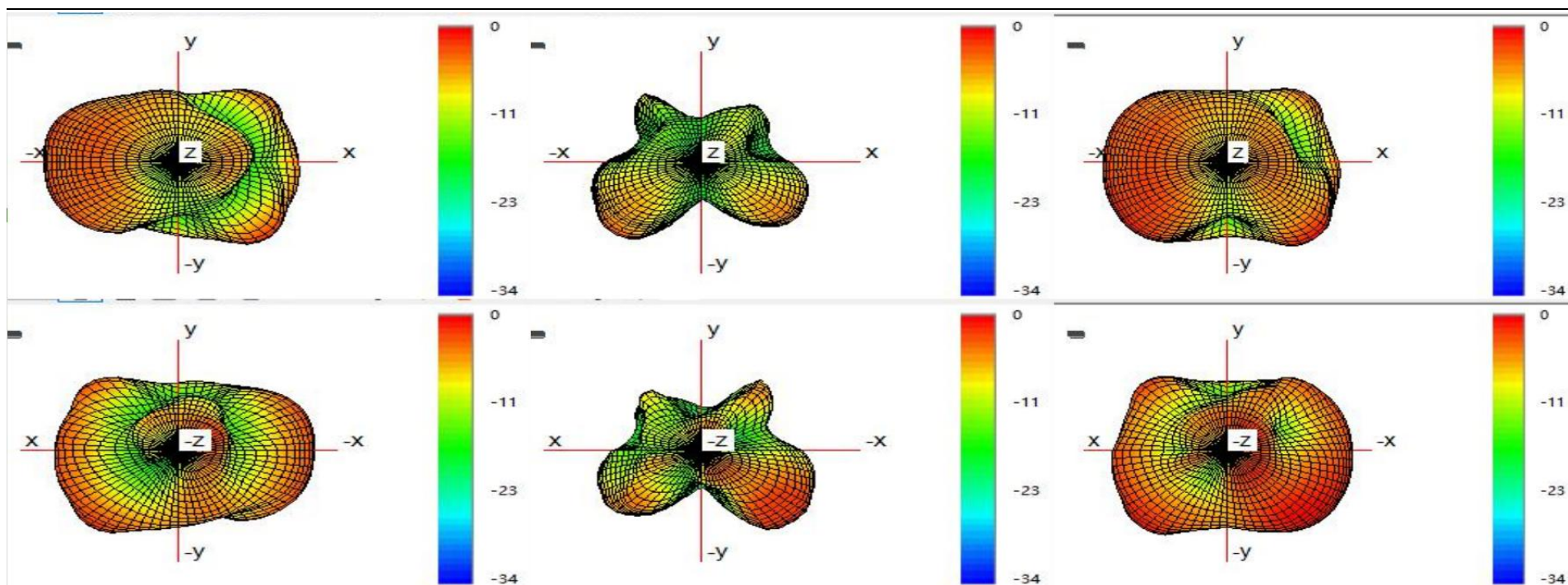
WIFI 1

Passive Test For 2.4G				Passive Test For 5G			
Freq (MHz)	Gain (dBi)	Effi (dB)	Effi (%)	Freq (MHz)	Gain (dBi)	Effi (dB)	Effi (%)
2400	0.54	-3.79	43.17	5150	1.19	-3.73	42.39
2410	0.68	-3.67	44.16	5200	0.89	-3.81	41.59
2420	0.88	-3.37	46.54	5250	0.39	-3.98	40.00
2430	0.80	-3.36	46.64	5300	0.30	-4.18	38.21
2440	0.70	-3.50	45.48	5350	0.02	-4.50	35.50
2450	0.83	-3.31	47.05	5400	0.41	-4.78	33.28
2460	0.97	-3.26	47.49	5450	0.81	-4.43	36.09
2470	1.02	-3.17	48.27	5500	0.94	-4.29	37.27
2480	1.10	-3.18	48.18	5550	1.19	-4.06	39.28
2490	0.98	-3.31	47.11	5600	1.25	-3.93	40.47
2500	1.10	-3.26	47.50	5650	1.21	-3.91	40.68
				5700	1.17	-3.86	41.11
				5750	1.26	-3.77	41.93
				5800	1.83	-3.33	46.47
				5850	2.40	-2.99	50.23



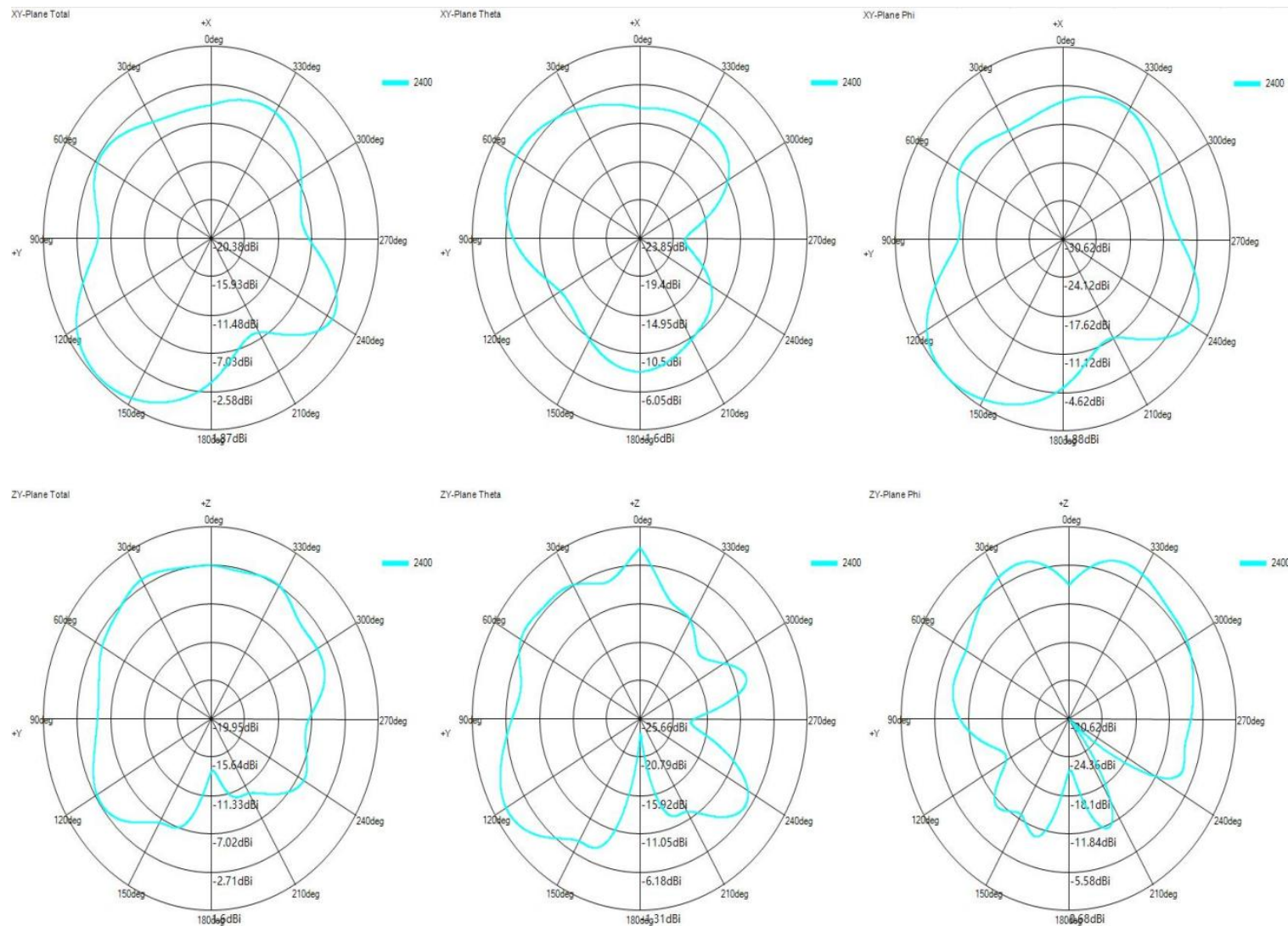


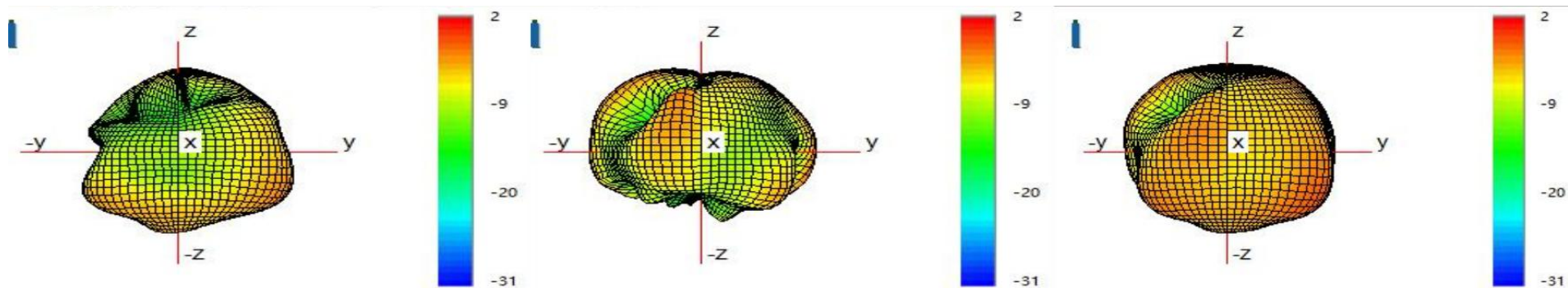
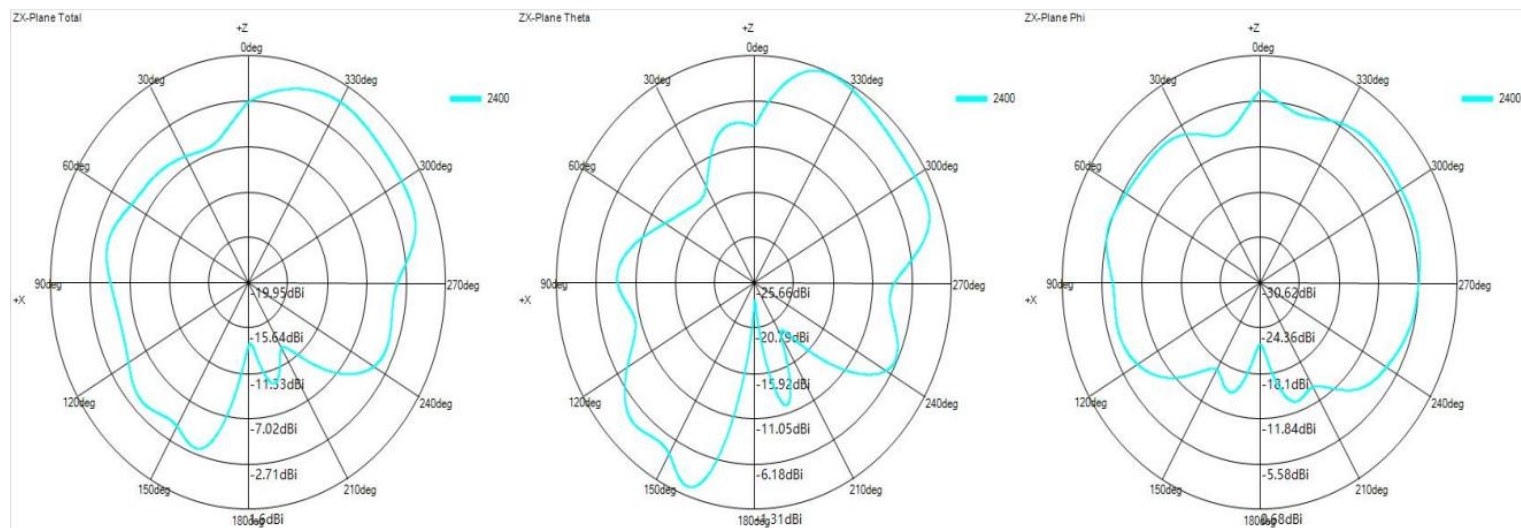


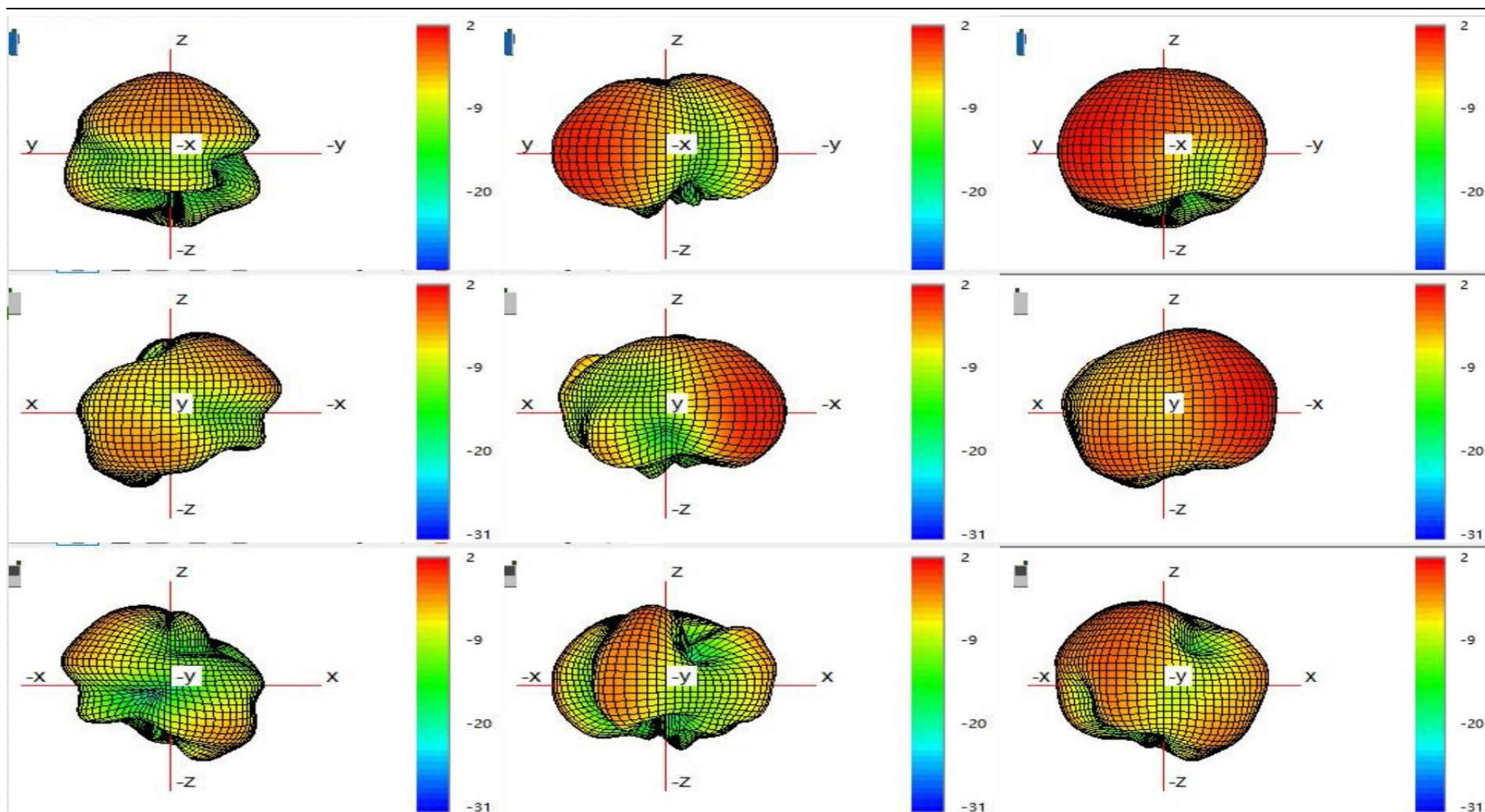


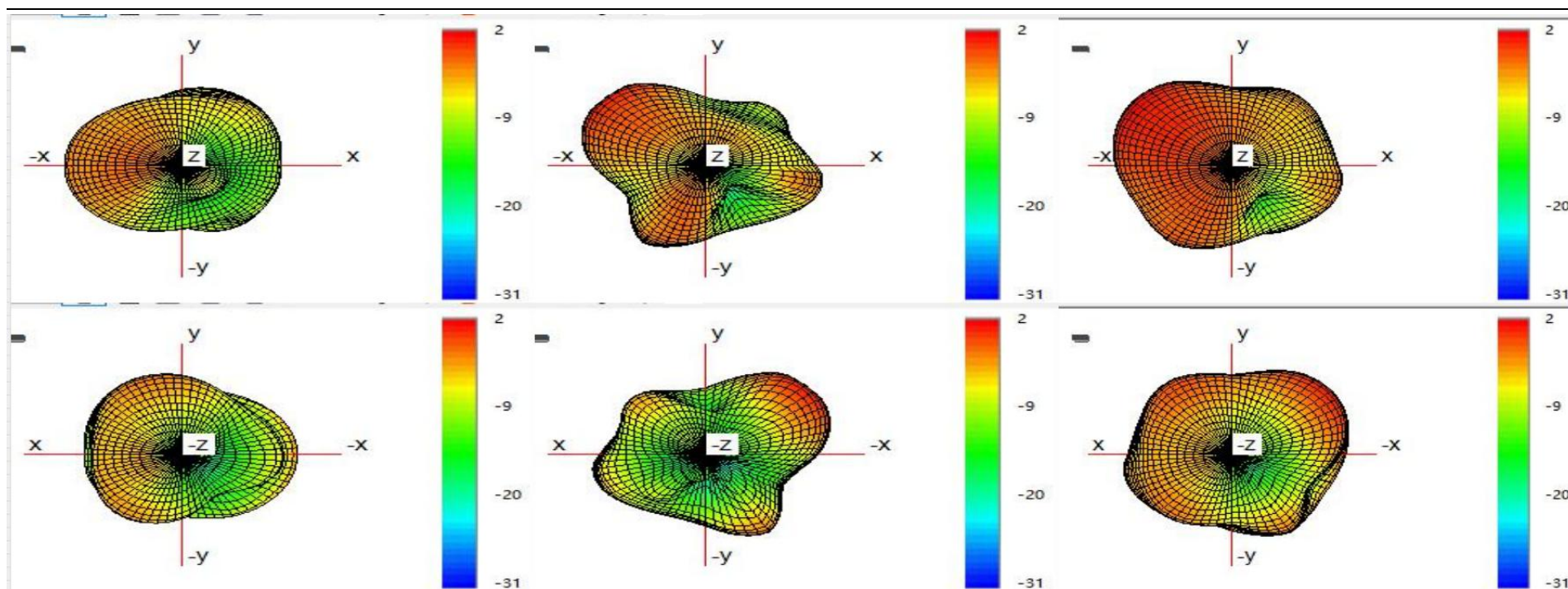
WIFI 0

Passive Test For 2.4G				Passive Test For 5G			
Freq (MHz)	Gain (dBi)	Effi (dB)	Effi (%)	Freq (MHz)	Gain (dBi)	Effi (dB)	Effi (%)
2400	2.33	-2.64	54.41	5150	0.92	-4.47	35.77
2410	2.50	-2.60	54.93	5200	0.75	-4.70	33.85
2420	2.68	-2.47	56.68	5250	0.64	-4.68	34.07
2430	2.48	-2.66	54.26	5300	1.04	-4.51	35.42
2440	2.33	-2.84	51.98	5350	1.39	-4.16	38.35
2450	2.36	-2.87	51.68	5400	1.70	-3.98	40.01
2460	2.29	-2.93	50.96	5450	2.39	-3.27	47.12
2470	2.32	-2.94	50.78	5500	2.51	-3.22	47.70
2480	2.13	-3.11	48.82	5550	2.47	-3.19	48.01
2490	2.01	-3.24	47.39	5600	2.49	-3.18	48.05
2500	2.03	-3.25	47.30	5650	2.51	-3.07	49.36
				5700	2.51	-3.04	49.62
				5750	2.38	-3.16	48.35
				5800	2.40	-3.06	49.45
				5850	2.53	-2.93	50.97









5:Antenna OTA parameters

Channel	2.4G-11AX (MCS11)			2.4G-11b(11M)			2.4G-11g(54M)			2.4G-11n(MCS7)		
	CH1	CH7	CH13	CH1	CH7	CH13	CH1	CH7	CH13	CH1	CH7	CH13
TRP	14.74	13.34	14.03	14.31	14.47	14.82	13.95	13.95	13.83	13.37	13.84	13.42
TIS	-63.82	-63.89	-63.24	-86.48	-86.42	-86.43	-73.87	-73.72	-74.05	-69.44	-69.41	-69.37
Channel	5G-11A			5G-11AC			5G-11AX(MCS11)			5G-11N		
	CH36	CH60	CH165	CH36	CH60	CH165	CH36	CH60	CH165	CH36	CH60	CH165
TRP	14.46	14.40	14.51	14.27	14.19	14.09	14.71	14.45	14.37	14.71	14.72	14.73
TIS	-74.35	-74.60	-74.59	-69.57	-69.84	-69.65	-63.34	-63.31	-62.82	-70.96	-71.22	-70.18
Channel	BT											
	CH0	CH39	CH78									
TRP	3.09	3.20	0.43									
TIS	-90.41	-90.68	-88.91									

6: NFC Antenna

Measured data:

Test Card Category	Actual distance(mm)
Type 1	≥ 40
Type 2	≥ 40
Type 3	≥ 40
Type 4	$\geq 10-15$
Type 5	≥ 50

7:Motherboard change identification

